QC ABSTRACT

NAME OF WORK: Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	RCC(M25)	Compressive Strength(7days and 28days)	3 set /16-30 cum	20.95	6	6
10	RCC(M20)	Compressive Strength(7days and 28days)	5 set /50-100 cum	64.35	10	10

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 25-11-22

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP,
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L. No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-11-22
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	23-11-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.24	–
2	Finess by Air permeablity method (m^2/kg,Min)	281.6	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 21-12-22

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-11-22
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	23-11-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-12-30-33** **Date: 25-11-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	22-11-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1223	1223	8.2	91.8	90-100
3	20 mm	5972	7195	48.0	52.0	30-70
4	10 mm	5575	12770	85.1	14.9	10-35
5	4.75 mm	1873	14643	97.6	2.4	0-5
6	Pan	357	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-12-30-33** **Date: 25-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.22	–

* The results obtained are satisfactory as per standard requirements.

Note:

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Date: 25-11-22

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-11-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-12-30-33 Date: 25-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Date: 25-11-22

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-11-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	22-11-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	31	31	3.1	96.9	90-100	90-100	90-100	95-100
3	2.36 mm	192	223	22.3	77.7	60-95	75-100	85-100	95-100
4	1.18 mm	152	375	37.5	62.5	30-70	55-90	75-100	90-100
5	600 micron	255	630	63.0	37.0	15-34	35-59	60-79	80-100
6	300 micron	186	816	81.6	18.4	5-20	8-30	12-40	15-50
7	150 micron	89	905	90.5	9.5	0-10	0-10	0-10	0-15
8	Pan	95	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-12-30-33** **Date: 25-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.15	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	9.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Date: 30-11-22

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-11-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	29-11-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe550	8	0.391	578	692	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe550	10	0.616	580	698	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe550	12	0.888	592	708	20.0%	Satisfactory	Satisfactory

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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TEST RESULTS OF STEEL

Date: 30-11-22

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2rd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-11-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	29-11-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500 D	8	0.391	538	620	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500 D	10	0.616	552	642	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500 D	12	0.888	572	683	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500 D	16	1.581	585	690	19.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF PRECAST COVER SLAB

Date: 09-12-22

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-12-22
Sample Type /Size	:	Precast Cover Slab - 200mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	06/12/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.01	100.5	1.344	4418	95.2	21.5	20.0	25.0
2	Cover Slab-2	75.02	100.49	1.395	4419	98.5	22.3	20.7	25.9
3	Cover Slab-3	75.03	100.50	1.379	4421	95.1	21.5	20.0	25.0

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-12-30-33** **Date: 09-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-12-22
Sample Type /Size	:	Precast Cover Slab - 230mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	06/12/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.02	100.52	1.502	7856	178.6	22.7	21.1	26.4
2	Cover Slab-2	100.03	100.48	1.498	7857	175.9	22.4	20.8	26.0
3	Cover Slab-3	100.01	100.51	1.495	7854	182.6	23.2	21.6	27.0

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/12/2022

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-22
Customer ID	:	Sump Bottom
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Bottom	M25	26/11/2022	03/12/2022	149.44 X 150.50 X 151.70	22490	9.072	527.9	23.5	22.8
2	Sump Bottom	M25	26/11/2022	03/12/2022	151.42 X 150.09 X 150.60	22728	8.774	507.6	22.3	
3	Sump Bottom	M25	26/11/2022	03/12/2022	150.07 X 151.17 X 149.77	22687	8.108	515.6	22.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/12/2022

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-22
Customer ID	:	Sump Bottom
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Bottom	M25	26/11/2022	24/12/2022	151.46 X 151.38 X 149.15	22928	8.835	623.6	27.2	27.2
2	Sump Bottom	M25	26/11/2022	24/12/2022	149.47 X 151.63 X 149.17	22664	8.777	599.1	26.4	
3	Sump Bottom	M25	26/11/2022	24/12/2022	149.92 X 150.46 X 151.98	22557	8.701	632.9	28.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/12/2022

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-22
Customer ID	:	Sump Bottom
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Bottom	M25	26/11/2022	03/12/2022	149.77 X 151.61 X 150.80	22707	8.300	535.8	23.6	22.9
2	Sump Bottom	M25	26/11/2022	03/12/2022	151.00 X 150.45 X 150.46	22718	9.068	519.8	22.9	
3	Sump Bottom	M25	26/11/2022	03/12/2022	150.68 X 149.09 X 150.11	22466	8.356	496.3	22.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/12/2022

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-22
Customer ID	:	Sump Bottom
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Bottom	M25	26/11/2022	24/12/2022	149.91 X 151.21 X 149.97	22668	8.930	617.9	27.3	27.3
2	Sump Bottom	M25	26/11/2022	24/12/2022	151.36 X 151.28 X 149.52	22898	8.660	603.1	26.3	
3	Sump Bottom	M25	26/11/2022	24/12/2022	151.41 X 150.01 X 149.67	22714	8.409	640.6	28.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/12/2022

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division. BBMP. Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-12-22
Customer ID	:	Sump Slab
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Slab	M25	30/11/2022	07/12/2022	149.93 X 151.24 X 151.58	22676	8.308	541.8	23.9	23.1
2	Sump Slab	M25	30/11/2022	07/12/2022	149.24 X 151.76 X 150.16	22649	8.141	511.1	22.6	
3	Sump Slab	M25	30/11/2022	07/12/2022	149.83 X 151.67 X 151.33	22726	8.190	516.7	22.7	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-12-30-33 **Date: 28/12/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L. No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-12-22
Customer ID	:	Sump Slab
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Slab	M25	30/11/2022	28/12/2022	151.36 X 149.76 X 151.94	22667	9.076	622.8	27.5	27.4
2	Sump Slab	M25	30/11/2022	28/12/2022	150.59 X 149.66 X 151.43	22537	8.843	592.5	26.3	
3	Sump Slab	M25	30/11/2022	28/12/2022	150.11 X 151.29 X 149.20	22709	8.764	646.2	28.5	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/12/2022

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	26/11/2022	03/12/2022	150.99 X 150.72 X 149.82	22758	9.006	430.6	18.9	18.5
2	Drain Bottom Raft	M20	26/11/2022	03/12/2022	151.12 X 150.17 X 149.84	22693	8.199	412.1	18.2	
3	Drain Bottom Raft	M20	26/11/2022	03/12/2022	150.23 X 150.40 X 151.97	22595	8.445	413.6	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/12/2022

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	26/11/2022	24/12/2022	149.73 X 149.70 X 149.59	22415	8.631	518.7	23.1	23.0
2	Drain Bottom Raft	M20	26/11/2022	24/12/2022	150.42 X 150.48 X 150.91	22636	8.494	501.8	22.2	
3	Drain Bottom Raft	M20	26/11/2022	24/12/2022	149.75 X 149.86 X 151.38	22441	8.354	531.7	23.7	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/12/2022

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L. No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	26/11/2022	03/12/2022	151.94 X 151.30 X 150.26	22989	8.572	423.1	18.4	18.4
2	Drain Bottom Raft	M20	26/11/2022	03/12/2022	151.13 X 149.50 X 150.82	22594	8.713	413.3	18.3	
3	Drain Bottom Raft	M20	26/11/2022	03/12/2022	150.99 X 149.96 X 150.72	22642	8.694	418.9	18.5	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/12/2022

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	26/11/2022	24/12/2022	151.48 X 149.27 X 151.09	22612	8.226	540.8	23.9	23.0
2	Drain Bottom Raft	M20	26/11/2022	24/12/2022	151.82 X 150.09 X 149.95	22787	8.478	503.2	22.1	
3	Drain Bottom Raft	M20	26/11/2022	24/12/2022	150.76 X 149.14 X 149.42	22483	8.975	518.8	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-12-30-33** **Date: 03/12/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	26/11/2022	03/12/2022	149.54 X 151.20 X 149.43	22610	8.625	409.3	18.1	18.2
2	Drain Bottom Raft	M20	26/11/2022	03/12/2022	150.39 X 149.28 X 151.40	22450	9.067	418.1	18.6	
3	Drain Bottom Raft	M20	26/11/2022	03/12/2022	151.45 X 151.56 X 151.89	22954	9.031	413.5	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-12-30-33** **Date: 24/12/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	26/11/2022	24/12/2022	151.30 X 151.83 X 151.89	22971	8.534	530.0	23.1	23.2
2	Drain Bottom Raft	M20	26/11/2022	24/12/2022	151.91 X 150.90 X 150.13	22924	8.981	525.0	22.9	
3	Drain Bottom Raft	M20	26/11/2022	24/12/2022	150.69 X 151.85 X 151.75	22882	8.807	537.7	23.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-12-30-33** **Date: 07/12/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-12-22
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	30/11/2022	07/12/2022	151.87 X 150.66 X 150.19	22880	8.677	425.9	18.6	18.7
2	Drain Side Wall	M20	30/11/2022	07/12/2022	151.98 X 149.74 X 151.14	22757	8.600	421.6	18.5	
3	Drain Side Wall	M20	30/11/2022	07/12/2022	150.25 X 149.75 X 150.40	22500	9.019	423.9	18.8	

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/12/2022

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-12-22
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	30/11/2022	28/12/2022	151.46 X 149.19 X 149.08	22595	8.431	536.2	23.7	23.4
2	Drain Side Wall	M20	30/11/2022	28/12/2022	151.56 X 151.73 X 150.96	22997	8.572	518.7	22.6	
3	Drain Side Wall	M20	30/11/2022	28/12/2022	151.24 X 150.21 X 150.80	22717	8.606	544.6	24.0	

* The results obtained are satisfactory as per standard requirements.

Note:
The results pertain to the samples received and tested.
All information furnished by Agency/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ. ವಿಭಾಗ

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/12/2022

Lab ID	:	CP-2022-12-30-33
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-12-22
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	30/11/2022	07/12/2022	149.14 X 150.36 X 150.75	22424	8.246	408.7	18.2	18.6
2	Drain Side Wall	M20	30/11/2022	07/12/2022	149.74 X 150.31 X 149.98	22507	8.259	419.0	18.6	
3	Drain Side Wall	M20	30/11/2022	07/12/2022	151.63 X 151.87 X 151.80	23029	8.346	436.2	18.9	

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KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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****End of Report****

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-12-30-33 **Date: 28/12/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains Construction of tank and pumpset for De-Watering in flood areas in ward no.06, Byatarayanapura Sub Division.
Agency	:	Sri. Dhananjaya M.L, No.90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/72/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-12-22
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	30/11/2022	28/12/2022	150.13 X 149.10 X 149.27	22384	8.158	530.0	23.7	23.2
2	Drain Side Wall	M20	30/11/2022	28/12/2022	151.85 X 150.84 X 150.04	22904	8.639	515.4	22.5	
3	Drain Side Wall	M20	30/11/2022	28/12/2022	149.67 X 151.42 X 149.42	22663	8.915	532.6	23.5	

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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
K KARTHIK RECHAN
Authorized Signatory
Quality Manager

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